WEB ACCESS: http://www.yorkville.com

SERVICE MANUAL

TYPE: YS1003

YCV50

WORLD HEADQUARTERS
CANADA

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Quality and Innovation Since 1963

Printed in Canada

IMPORTANT SAFETY INSTRUCTIONS

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK).

NO USER SERVICEABLE PARTS INSIDE.

REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Read Instructions
The Owner's Manualshould be read and understood before operation of your unit. Please, save these instructions for future reference.

Packaging
Keep the box and packaging materials, in case the unit needs to be returned for service.

Warning
When using electric products, basic precautions should always be followed, including the following:

Power Sources
Your unit should be connected to a power source only of the voltage specified in the owners manual or as marked on the unit. This unit has a polarized plug. Do not use with an extension cord or receptacle unless the plug can be fully inserted. Precautions should be taken so that the grounding scheme on the unit is not defeated.

Hazards
Do not place this product on an unstable cart, stand, tripod, bracket or table. The product may fall, causing serious personal injury and serious damage to the product. Use only with cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the product. Follow the manufacturer's instructions when installing the product and use mounting accessories recommended by the manufacturer.

The apparatus should not be exposed to dripping or splashing water; no objects filled with liquids should be placed on the apparatus.

Terminals marked with the "lightning bolt" are hazardous live; the external wiring connected to these terminals require installation by an instructed person or the use of ready made leads or cords.

No naked flame sources, such as lighted candles, should be placed on the apparatus.

Power Cord
The AC supply cord should be routed so that it is unlikely that it will be damaged. If the AC supply cord is damaged DO NOT OPERATE THE UNIT.

Service
The unit should be serviced only by qualified service personnel.

INSTRUCTIONS RELATIVES AU RISQUE DE FEU, CHOC ÉLECTRIQUE, OU BLESSURES AUX PERSONNES

AVIS:
AFIN DE REDUIRE LES RISQUE DE CHOC ELECTRIQUE, N'ENLEVEZ PAS LE COUVERT (OU LE PANNEAU ARRIERE)

NE CONTIENT AUCUNE PIECE REPARABLE PAR L'UTILISATEUR.

CONSULTEZ UN TECHNICIEN QUALIFIE POUR L'ENTRETIENT

Veuillez Lire le Manuel
Il contient des informations qui devraient êtres comprises avant l'opération de votre appareil. Conservez S.V.P. ces instructions pour consultations ultérieures.

Emballage
Conservez la boite au cas ou l'appareil devait être retourner pour réparation.

Attention:
Lors de l'utilisation de produits électrique, assurez-vous d'adhérer à des précautions de bases incluant celle qui suivent:

Alimentation
L'appareil ne doit être branché qu'à une source d'alimentation correspondant au voltage spécifié dans le manuel ou tel qu'indiqué sur l'appareil. Cet appareil est équipé d'une prise d'alimentation polarisée. Ne pas utiliser cet appareil avec un cordon de raccordement à moins qu'il soit possible d'insérer complètement les trois lames. Des précautions doivent êtres prises afin d'eviter que le système de mise à la terre de l'appareil ne soit désengagé.

Risque
Ne pas placer cet appareil sur un chariot, un support, un trépied ou une table instables. L'appareil pourrait tomber et blesser quelqu'un ou subir des dommages importants. Utiliser seulement un chariot, un support, un trépied ou une table recommandés par le fabricant ou vendus avec le produit. Suivre les instructions du fabricant pour installer l'appareil et utiliser les accessoires recommandés par le fabricant.

Il convient de ne pas placer sur l'appareil de sources de flammes nues, telles que des bougies allumées.

L'appeil ne doit pas être exposé à des égouttements d'eau ou des éclaboussures et qu'aucun objet rempli de liquide tel que des vases ne doit être placé sur l'appareil.

Les dispositifs marqués d'une symbole "d'éclair" sont des parties dangereuses au toucher et que les câblages extérieurs connectés à ces dispositifs de connection extérieure doivent être effectivés par un opérateur formé ou en utilisant des cordons déjà préparés.

Cordon d'Alimentation
Évitez d'endommager le cordon d'alimentation. N'UTILISEZ PAS L'APPAREIL si le cordon d'alimentation est endommagé.

Service
Consultez un technicien qualifié pour l'entretien de votre appareil.

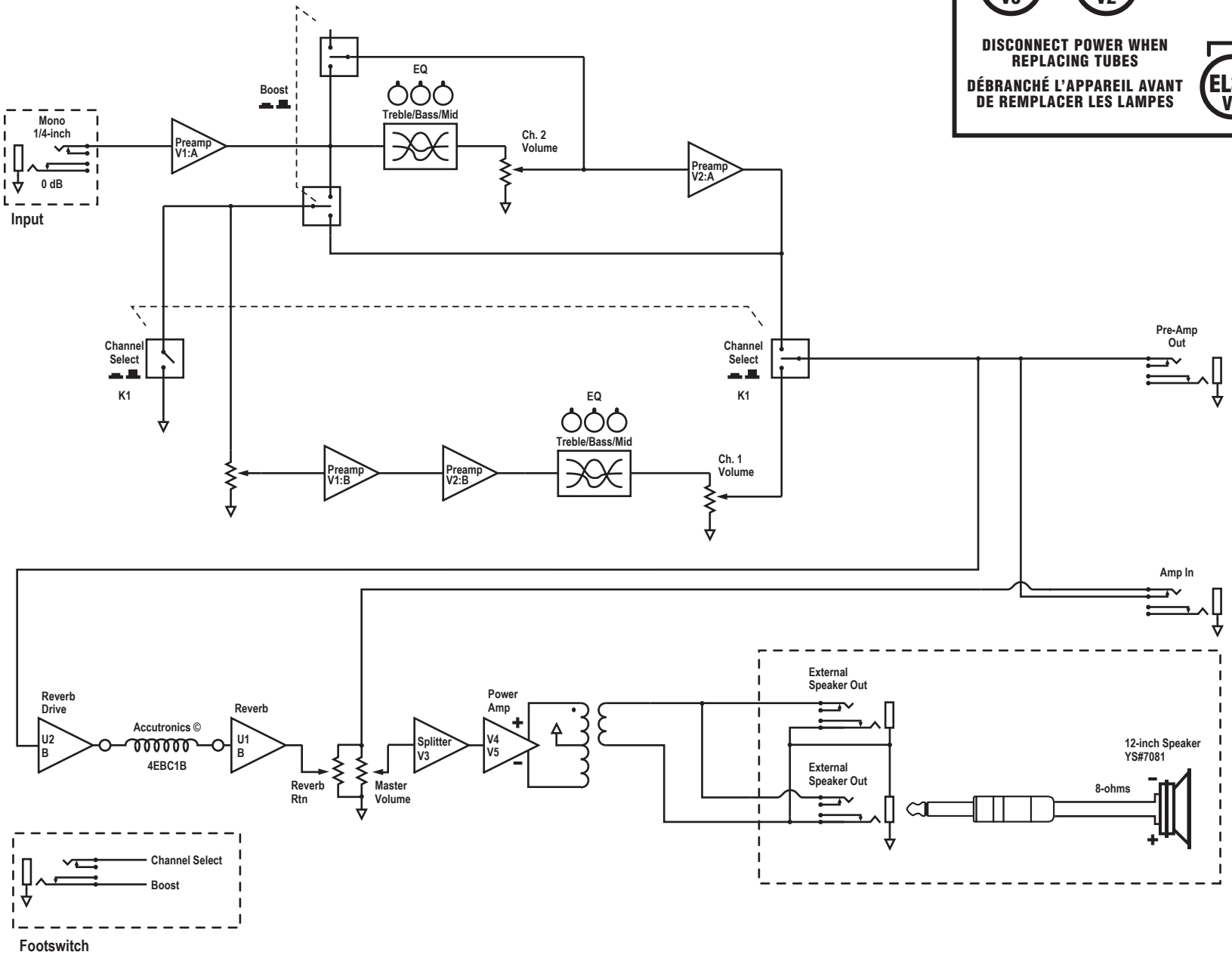
YCV50BLUE Parts List 2/15/2005

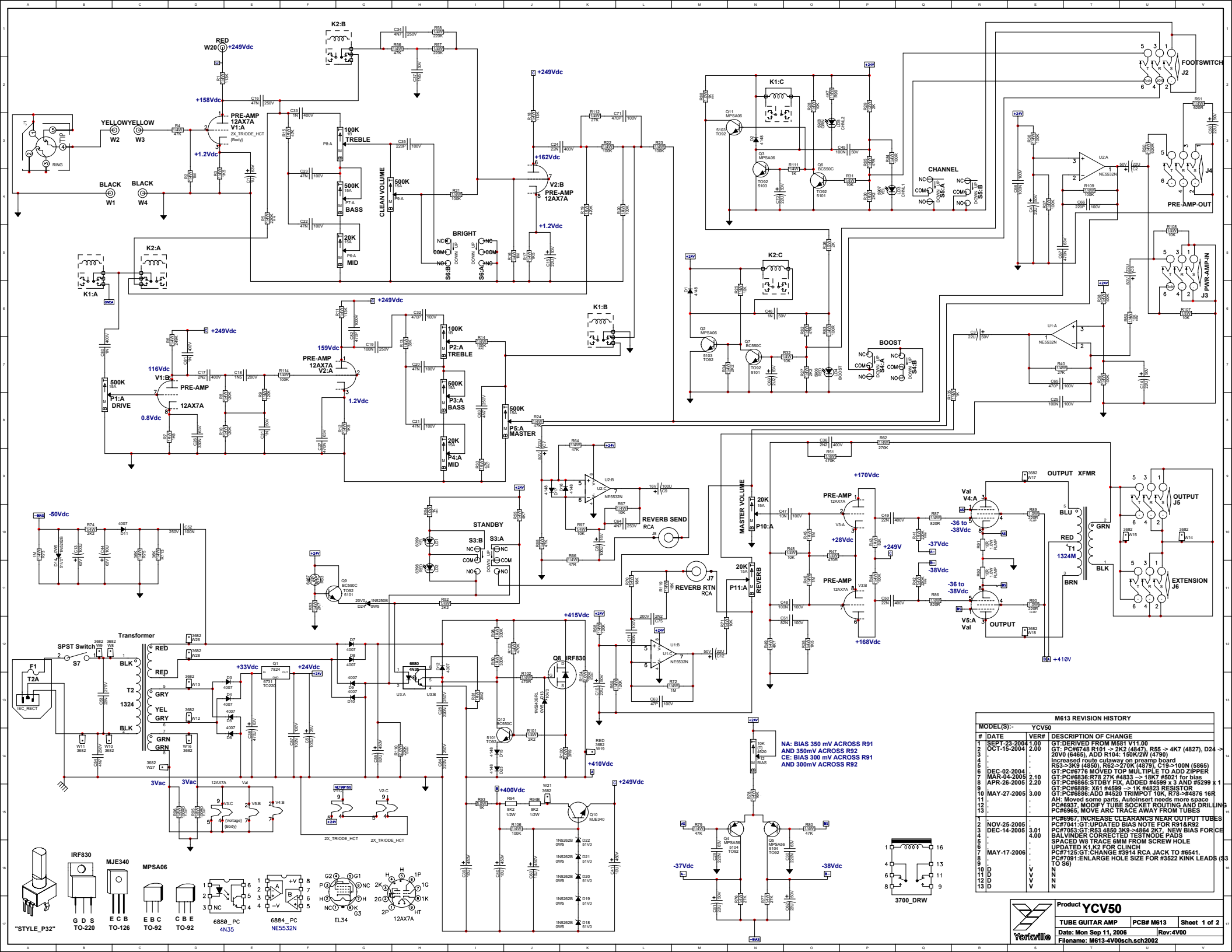
YS #	Description	Qty.
6397	JEWELED PILOT LAMP AMBER REG V1	1
5906	RED 3MM LED 1V9 20MA .4SPCER T&R	1
6398	RED 5MM LED 1V5 20MA HIGH EFF	1
6399	YEL 5MM LED 1V5 20MA HIGH EFF	1
5907	YEL 3MM LED 1V9 20MA .4SPCER T&R	1
5908	GRN 3MM LED 1V9 20MA .4SPCER T&R	1
6825	1N4148 75V 0A45 DIODE T&R	6
6438	1N4007 400V 1A0 DIODE T&R	10
6461	1N5240BRL 10V0 0W5 ZENER 5% T&R	1
6432	1N5248B 18V0 0W5 ZENER 5% T&R	1
6475	1N5262B 51V0 0W5 ZENER 5% T&R	6
6731	7824 TO220 P 24V0 REG	1
5101	BC550C TO92 NPN TRAN T&R TB	4
5103	MPSA06 TO92 NPN TRANSISTOR T&R TA	3
5104	MPSA56 TO92 PNP TRAN T&R TA	2
6873	MJE340 TO126 NPN TRANSISTOR TG	1
6730	IRF830 TO220 NCH MFET TN	1
6884	NE5532N IC DUAL OP AMP	2
6880	4N35 OPTO-COUPLER	1
6467	10K 10% THERMISTOR NTC TO-92	1
5203	_47P 100V 2%CAP T&R RAD CER.2"NPO	1
5197	220P 100V 2%CAP T&R RAD CER.2"NPO	2
5194	470P 1000V 10%CAP T&R RAD CER.2"Y5P	1
5201	470P 100V 5%CAP T&R RAD CER.2"NPO	3
5206	__1N 400V 5%CAP T&R RAD .2"FLM	3
5422	__1N 50V 10%CAP T&R BEAD NPO	2
5273	__1N5 200V 5%CAP T&R RAD CER.2"NPO	1
5606	1N5 50V 5%CAP T&R RAD CER.2" X7R	1
5208	__2N2 400V 5%CAP T&R RAD .2"FLM	2
5274	__2N2 200V 5%CAP T&R RAD CER.2"NPO	1
5209	__4N7 250V 5%CAP T&R RAD .2"FLM	3
6451	__4N7 250V 20%CAP BLK 'Y' 10MM AC	1
5204	_10N 100V 10%CAP T&R RAD .2"FLM	1
5840	_22N 400V 10%CAP BLK RAD POLY FLM	3
6435	_22N 275V 20%CAP BLK 'X2' 15MM AC	1
5224	_47N 100V 10%CAP T&R RAD .2"FLM	4
5841	_47N 250V 10%CAP RAD POLYFILM BULK	1
5227	_82N 100V 5%CAP T&R RAD .2"FLM	1
5228	100N 100V 5%CAP T&R RAD .2"FLM	5
5314	100N 50V 10%CAP T&R BEAD X7R	1
5865	100N 250V 10%CAP BLK RAD POLY FLM	2
5231	220N 63V 10%CAP T&R RAD .2"FLM	2
5882	220N 250V 10%CAP BLK RAD POLY FLM	2
5233	330N 63V 5%CAP T&R RAD .2"FLM	1
5234	470N 63V 10%CAP T&R RAD .2"FLM	2
5254	__1U 63V 20%CAP T&R 4X7MM .2"EL	1
5257	__2U2 63V 20%CAP T&R RAD .2"EL	1
5945	_10U 63V 20%CAP T&R RAD .2"EL	1
5959	_10U 450V 20%CAP BLK EL	4
5631	_22U 50V 20%CAP T&R 6X7MM .2"EL	13
5902	82U 450V 20%CAP BLK 22X30MM	1
5267	100U 25V 20%CAP T&R RAD .2"EL	1
5879	100U 16V 20%CAP T&R 8X7MM .2"EL	2
5914	100U 63V 20%CAP BLK 10X13MM EL	1
5621	470U 63V 20%CAP BLK 12X25MM EL	1
TFS-2B	TRAYNOR DUAL FOOTSWCH 10' CORD-BULK	1
4423	_20K 15AAUDIO 9MM P32	4
4424	100K 1B LIN 9MM P32	2
4425	500K 15AAUDIO 9MM P32	5
713	25 X 20 X 50 2 MIL PLASTIC BAG	1
3976	SNAP ON 0.843" INSULATING BUSHING	2
8522	RUBBER BUMPER WITH WASHER -SMALL-	4
8563	CORNER, 2 LEGS NOTCED BLK PLASTIC	8
3478	CLIP 205/187X032 18-22AWG DISCO/INS	5
3489	CLIP 250X032 18-22AWG DISCO/INSL	2
3494	CLIP 205/187X020 14-16AWG DISCO/INS	2
3602	RING TERMINAL 18AWG WIRE & #8 SCREW	1
3682	250 MALE PCB TAB REEL	16
NYS224	280 PLUG NEUTRIK NYS224	1
3498	1/4" JCK PCB MT HORZ	3
3523	1/4" JCK PCB MT HORZ GOLD T__	1
3528	1/4" JCK PCB MT HORZ GOLD TR_	1
3921	1/4" JCK PCB MT VERT STER RT SWT	1
3890	36"90'RCA DUAL RED-WHITE PREFAB CBL	1
3914	RCA SNGL PCB MT HORZ	2
3451	EYELET SMALL 0.089 OD PLATED	13
2403	T2A 5X20MM FUSE	1
8451	10" STRAP HANDLE,BLACK METAL ENDCAP	1
8604	10-32 T NUT	6
8889	RUBBER GROMMET #2183-034-BLK	4
3438	IEC PWR SOC W/.205TAB &FUSE 10A250V	1
3552	NYLON SPRING CLAMP	4
3810	4" NYLON CABLE TIE	14
8430	YCV40 CHICKEN-BEAK KNOB	11
8638	AP MIXER SERIES PUSH SW BUTTON GREY	4
3428	8' 3/18 SJT AC LINE CORD REMOVABLE	1
8264	YBA200/YCV LOGO EMBOSSED ALUMINUM	1
8910	YORKVILLE PRODUCT MANUAL	1
8900	YORKVILLE WARRANTY CARD 2-YR UNLTD.	1
YCV40POP	YCV40/WR/T POINT OF PURCHASE BOOK	1
3674	9 CIR CABLE HOLDER .098	4
8701	4-40 KEPS NUT ZINC	2
8800	6-32 KEPS NUT ZINC	4
8890	1/4-20 CAGE NUT C79-88142027	4
3830	TO218 PREGREASED MICA 56-78-2AP	2
3850	TO-220 PLASTIC TRANSISTOR INSULATOR	2
4599	22AWG SOLID SC WIR T&R JMP	58
5299	24AWG SOLID SC WIR RAD JMP	1
4748	2.0W 3R9 5% T&R	1
2008	1.0W 10R 5%FLAME PROOF T&R RES	2
4817	1/4W 47R 5% T&R RES	3
2019	1/8W 100R0 1%FLAME PROOF T&R RES	2
4852	1/4W 100R 5% T&R RES	2
2022	1.0W 220R 5%FLAME PROOF T&R RES	2
4821	1/4W 470R 5% T&R RES	2
4891	1/4W 620R 5% T&R RES	2
4822	1/4W 820R 5% T&R RES	2
4726	5.0W 1K 5% BLK RES	1
4823	1/4W 1K 5% T&R RES	1
4913	1.0W 1K 5% T&R RES	2
4824	1/4W 1K5 5% T&R RES	5
4631	1/2W 2K 5% T&R RES	2
4808	1/4W 2K 5% T&R RES	1
4847	1/4W 2K2 5% T&R RES	5
4827	1/4W 4K7 5% T&R RES	2
4828	1/4W 6K8 5% T&R RES	1
4663	1/2W 8K2 5% T&R RES	2
4829	1/4W 10K 5% T&R RES	10
4983	1/4W 10K 5%MINI T&R RES	1
4831	1/4W 18K 5% T&R RES	2
4833	1/4W 27K 5% T&R RES	5
4840	1/4W 33K 5% T&R RES	1
4868	1/4W 36K 5% T&R RES	2
4834	1/4W 47K 5% T&R RES	9
4927	1/4W 47K 5% .2"U T&R RES	1
4586	1/4W 82K 5%MINI T&R RES	1
4838	1/4W 100K 5% T&R RES	11
4942	1/4W 100K 5% .2"U T&R RES	1
6120	1/4W 100K 5%MINI T&R RES	1
4776	1/4W 113K 1% T&R RES	3
4851	1/4W 120K 5% T&R RES	5
4668	2.0W 220K 5%10MM BODY T&R RES	1
4841	1/4W 220K 5% T&R RES	2
6126	1/4W 220K 5%MINI T&R RES	4
6145	1/4W 249K 1%MINI T&R RES	1
4842	1/4W 330K 5% T&R RES	2
4843	1/4W 470K 5% T&R RES	3
4844	1/4W 1M 5% T&R RES	6
4845	1/4W 2M2 5% T&R RES	1
3610	10" 9C-26AWG RIB 3/4" NOTCH 0.1"	2
3700	RELAY 2C 01AMP DC24 015MA PC-S	2
3537	ACC# 4EB3C1B LONG REVERB	1
8865	4-40 X 5/16 PAN PH MS JS500	18
8741	4-40 X 1/2 PAN PH MS JS500	2
8832	6-32 X 1/4 PAN PH TAPTITE JS500	11
8807	6-32 X 5/16 PAN PH MS JS500	3
8801	6-32 X 3/8 PAN PH TAPTITE JS500	4
8829	6-32 X 3/8 FLAT PH TAPTITE BO#4 HEA	11
8755	#6 X 5/8 PAN PH TYPE A JS500 BLACK	2
8785	#8 X 3/4 OVAL PH TYPE A BLACK OXIDE	16
8722	#8 X 1" PAN QUAD TYPE AB B/O	4
8809	10-32 X 1/4 PAN PH TAPTITE JS500	25
8756	#10 X 3/4 PAN PH TYPE A BLACK OXIDE	2
8727	#10 X 1" PAN PH TYPE A JS500 BLACK	4
8843	10-32 X 1 1/8 FLAT PH MS JS500	2
8786	10-32 X 1 1/4 PAN QD MS JS500 BLACK	4
8862	#10 X 1 1/2 PAN PH TYPE A JS500	4
8770	1/4-20 X 1 5/16 TRUSS PH MS JS500	4
8905	YORKVILLE PRODUCT SCHEMATIC	1
3741	.5 SPACER ID-.171 OD-.25 #912-500	4
3865	1/2 PLASTIC HEX SPACER #6	11
3858	3/4 PLASTIC HEX SPACER #4	7
7081	12" 8R 60WPGM SPKR CELEST VINT30	1
8482	3/8 1D FLAT WASHER	1
8488	3/8 INT TOOTH LOCKWASHE ZINC	1
3511	#6 FLAT WASHER NYLON	2
8491	#10 SPLIT LOCK WASHER BO	8
8820	#8 FLAT WASHER JS500	4
8817	#10 FLAT WASHER FOR 3/16" BOLT	8
3522	DPDT MINI PC VERT SNP ALT	4
3698	SPST ROKR SW QUIK 180" AC PWR BL/BL	1
3731	SPRING RETAINER FOR OUTPUT TUBE	2
3732	9 PIN PC MOUNT TUBE SOCKET BE	3
3733	8 PIN PC MOUNT TUBE SOCKET	2
12AX7	12AX7 DUAL TRIODE PREAMP TUBE	3
EL34	EL34 E.H. EARLY MULLARD STYLE	2
1324	YCV40 POWER 120VAC 60HZ XFMR	1
1324M	YCV40 OUTPUT XFMR	1

MODEL TYPE: YS1003

Block Diagram for YCV50

DESIGNED AND MANUFACTURED BY YORKVILLE SOUND





M613 REVISION HISTORY			
MODEL(S):-		YCV50	
#	DATE	VER#	DESCRIPTION OF CHANGE
1	SEPT-23-2004	1.00	GT:DERIVED FROM M581 V11.00
2	OCT-15-2004	2.00	GT: PC#6748 R101 -> 2K2 (4847), R55 -> 4K7 (4827), D24 -> 20V0 (6465), ADD R104: 150K/2W (4790)
3	.	.	Increased route cutaway on preamp board
4	.	.	R53->3K3 (4850), R62->270K (4879), C19->100N (5865)
5	.	.	GT:PC#6776 MOVED TOP MULTIPLE TO ADD ZIPPER
6	DEC-02-2004	.	GT:PC#6836:R78 27K #4833 -> 18K7 #5021 for bias
7	MAR-04-2005	2.10	GT:PC#6865:STDBY FIX, ADDED #4599 x 3 AND #5299 x 1
8	APR-26-2005	2.20	GT:PC#6889: X61 #4599 --> 1K #4823 RESISTOR
9	.	.	GT:PC#6886:ADD #4520 TRIMPOT 10K, R78->#4876 16R
10	MAY-27-2005	3.00	AH: Moved some parts. Autoinsert needs more space
11	.	.	PC#6937, MODIFY TUBE SOCKET ROUTING AND DRILLING
12	.	.	PC#6965, MOVE ARC TRACE AWAY FROM TUBES
13	.	.	
1	.	.	PC#6967, INCREASE CLEARANCS NEAR OUTPUT TUBES
2	NOV-25-2005	.	PC#7041:GT:UPDATED BIAS NOTE FOR R91&R92
3	DEC-14-2005	3.01	PC#7053:GT:R53 4850 3K9->4864 2K7, NEW BIAS FOR CE
4	.	4.00	BALVINDER CORRECTED TESTNODE PADS
5	.	.	SPACED W8 TRACE 6MM FROM SCREW HOLE
6	.	.	UPDATED K1,K2 FOR CLINCH
7	MAY-17-2006	.	PC#7125:GT:CHANGE #3914 RCA JACK TO #6541.
8	.	.	PC#7091:ENLARGE HOLE SIZE FOR #3522 KINK LEADS (S3 TO S6)
9	.	.	
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

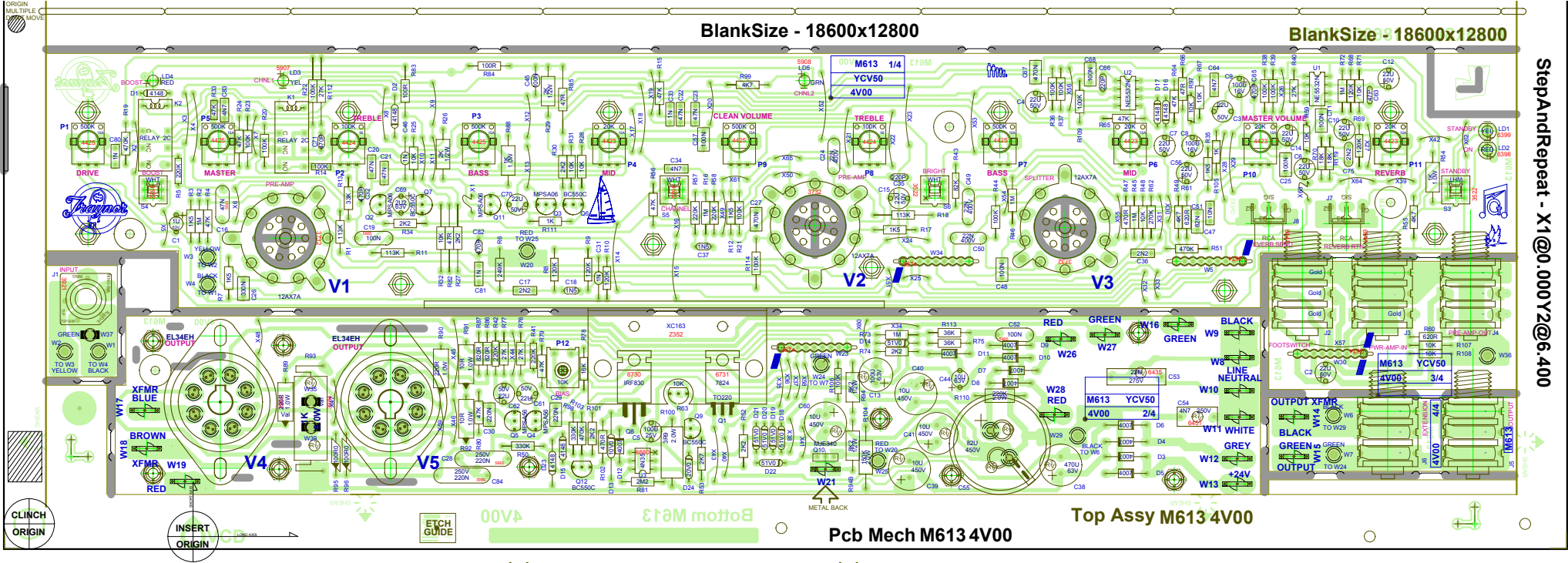
Yorkville

Product YCV50

TUBE GUITAR AMP | PCB# M613 | Sheet 1 of 2

Date: Mon Sep 11, 2006 | Rev:4V00

Filename: M613-4V00sch.sch2002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BlankSize - 18600x12800
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M613 1/4
YCV50
4V00
V1
V2
V3
V4
V5
PRE-AMP
DRIVE
MASTER
BASS
MID
TREBLE
CLEAN VOLUME
MASTER VOLUME
REVERB
SPLITTER
BRIGHT
CHANNEL
INPUT
OUTPUT
FOOTSWITCH
PWR-AMP-IN
PRE-AMP OUT
XFMR BLUE
XFMR BROWN
XFMR RED
LINE NEUTRAL
WHITE
GREY
+24V
BLACK
GREEN
RED
METAL BACK
CLINCH ORIGIN
INSERT ORIGIN
ETCH GUIDE
Pcb Mech M613 4V00
Top Assy M613 4V00
SEE LAYOUT DOCUMENTATION

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9	.	.	
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N
7	D	V	N
8	D	V	N
9	D	V	N
10	D	V	N
11	D	V	N
12	D	V	N
13	D	V	N

SEE LAYOUT DIAGRAM

M581 DRILL HISTORY

MODEL(S):- YCV50

#	DATE	VER#	DESCRIPTION OF CHANGE
1	D	V	N
2	D	V	N
3	D	V	N
4	D	V	N
5	D	V	N
6	D	V	N

M581 PENDING CHANGES

MODEL(S):- YCV50

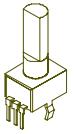
#	PC#	PENDING CHANGE
1	PC	X
2	PC	X
3	PC	X
4	PC	X
5	PC	X
6	PC	X

*PLACE IMPLEMENTED CHANGES INTO BOARD HISTORY

M613 POT LIST

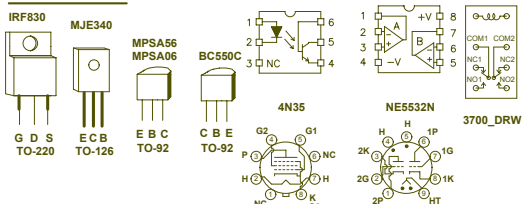
MODEL(S):- YCV50 TUBE AMP

REF	FUNCTION	PART#	KNOB	AS OF
P1	DRIVE	#4425	#8430	11/00
P2	TREBLE	#4424	#8430	11/00
P3	BASS	#4425	#8430	11/00
P4	MID	#4423	#8430	11/00
P5	MASTER	#4425	#8430	11/00
P6	MID	#4423	#8430	11/00
P7	BASS	#4425	#8430	11/00
P8	TREBLE	#4424	#8430	11/00
P9	CLEAN VOLUME	#4425	#8430	11/00
P10	MASTER VOLUME	#4423	#8430	23/04
P11	REVERB	#4424	#8430	11/00



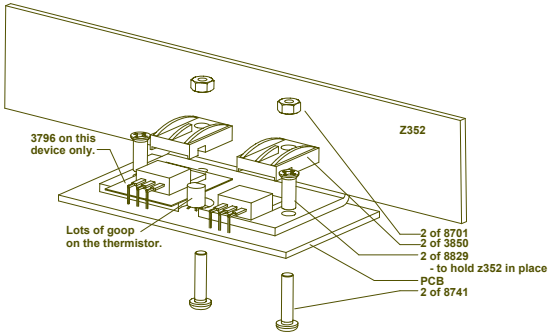
"STYLE_P32"

LEAD/PIN REFERENCE



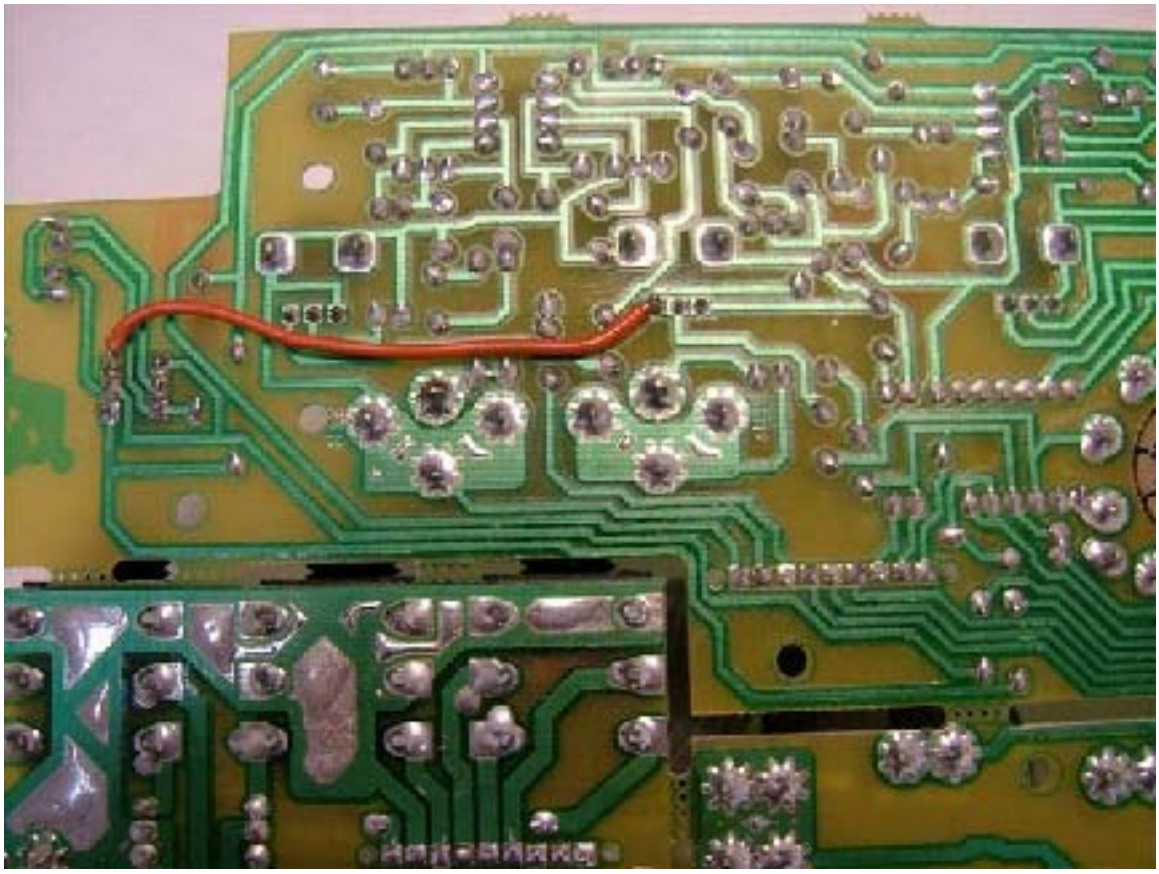
PRODUCTION NOTES

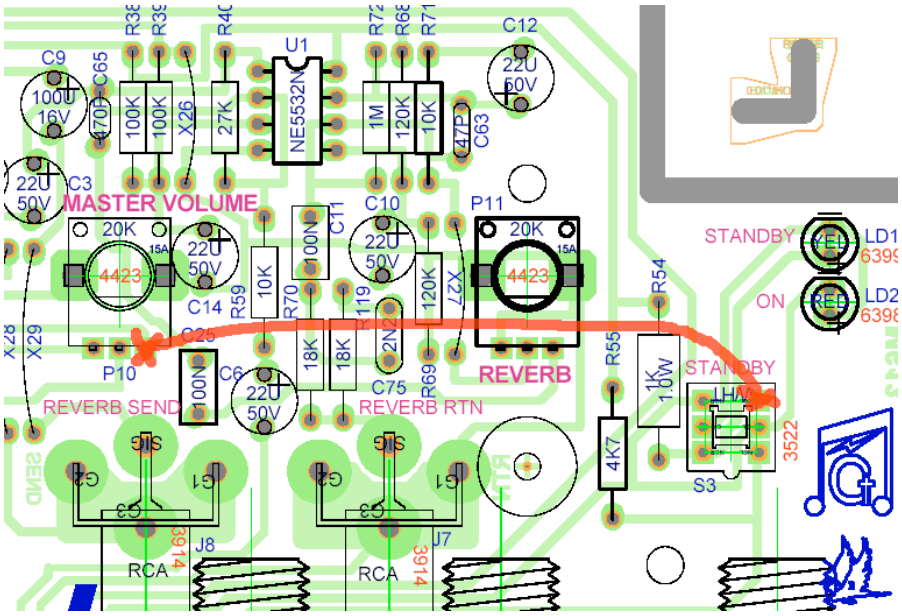
1. RTV MUST BE ADDED TO THE FOLLOWING CAPS C1,C16,C19,C17,C70 BETWEEN C84,C28,C60,C15 BETWEEN C49,C50, ADDED TO C15,C7,C8,C3,C9 C56,C14,C6,C10,C4,C2 AND C12
2. C53 IS 22N FOR BOTH NORTH AMERICA AND CE
3. C3,C7,C6 MUST BE LOW PROFILE PT#5631
4. C8,C9 MUST BE LOW PROFILE PT#5879
5. R63 #6467: APPLY THERMAL COMPOUND GENEROUSLY BETWEEN PART AND HEATSINK
6. NA: BIAS 350mV ACROSS R91 AND 350mV ACROSS R92
   CE: BIAS 300mV ACROSS R91 AND 300mV ACROSS R92

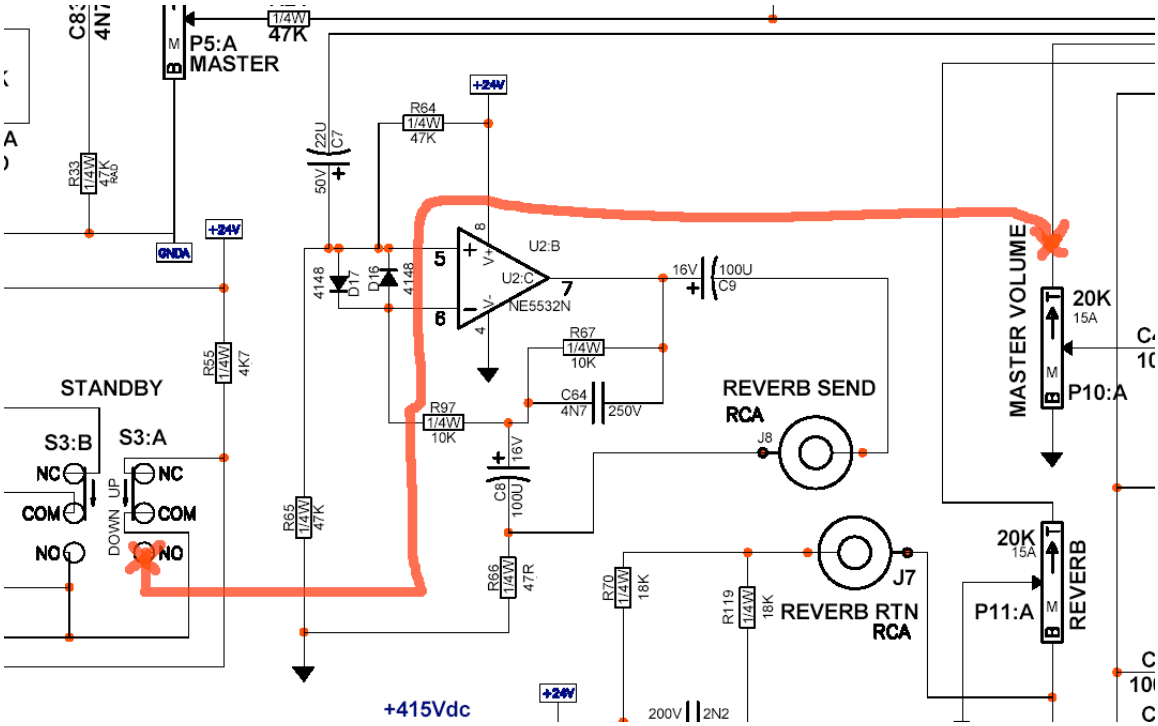


YCV50BLUE m613 Service Update for V2.10 boards

April 2005 boards have been reworked as described in this document.
To address PC#6865 a 22AWG wire, part # 3947 jumper, needs to be soldered from P10 to S3 on the bottom side of the board as shown:






P5:A
MASTER
1/4W
47K
R33
1/4W
47K
GNDA
+24V
R64
1/4W
47K
22U
C7
50V
U2:B
U2:C
NE5532N
V+
V-
4148
D17
D16
16V
100U
C9
R67
1/4W
10K
C64
4N7
250V
R97
1/4W
10K
R55
1/4W
4K7
STANDBY
S3:B
S3:A
NC
COM
UP
DOWN
R65
1/4W
47K
C8
16V
100U
R66
1/4W
47R
REVERB SEND
RCA
J8
J7
REVERB RTN
RCA
R70
1/4W
18K
R119
1/4W
18K
200V
2N2
+415Vdc
MASTER VOLUME
20K
15A
P10:A
20K
15A
P11:A
REVERB

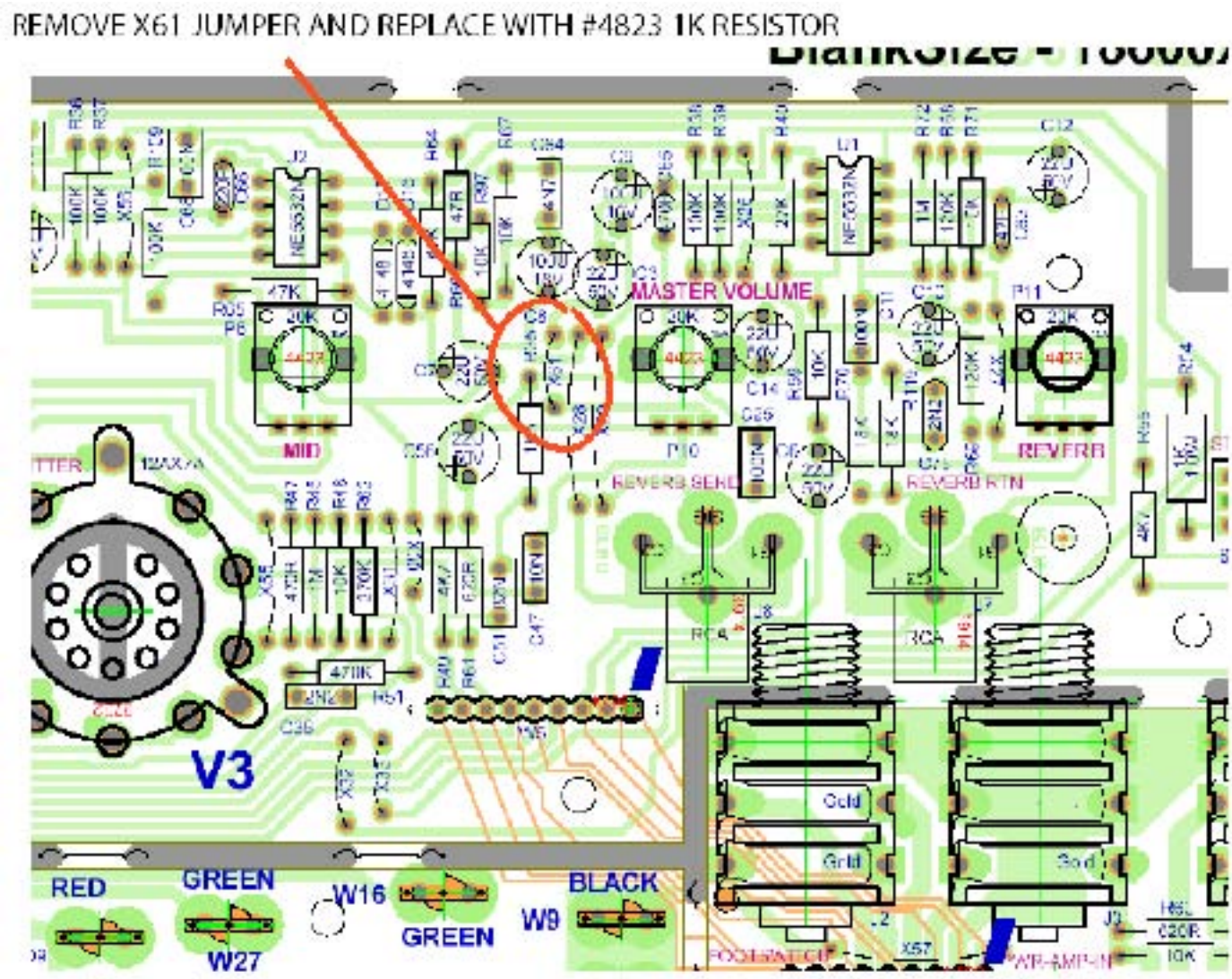
YCV50BLUE m613 Service Update for V2.10 boards (additional)

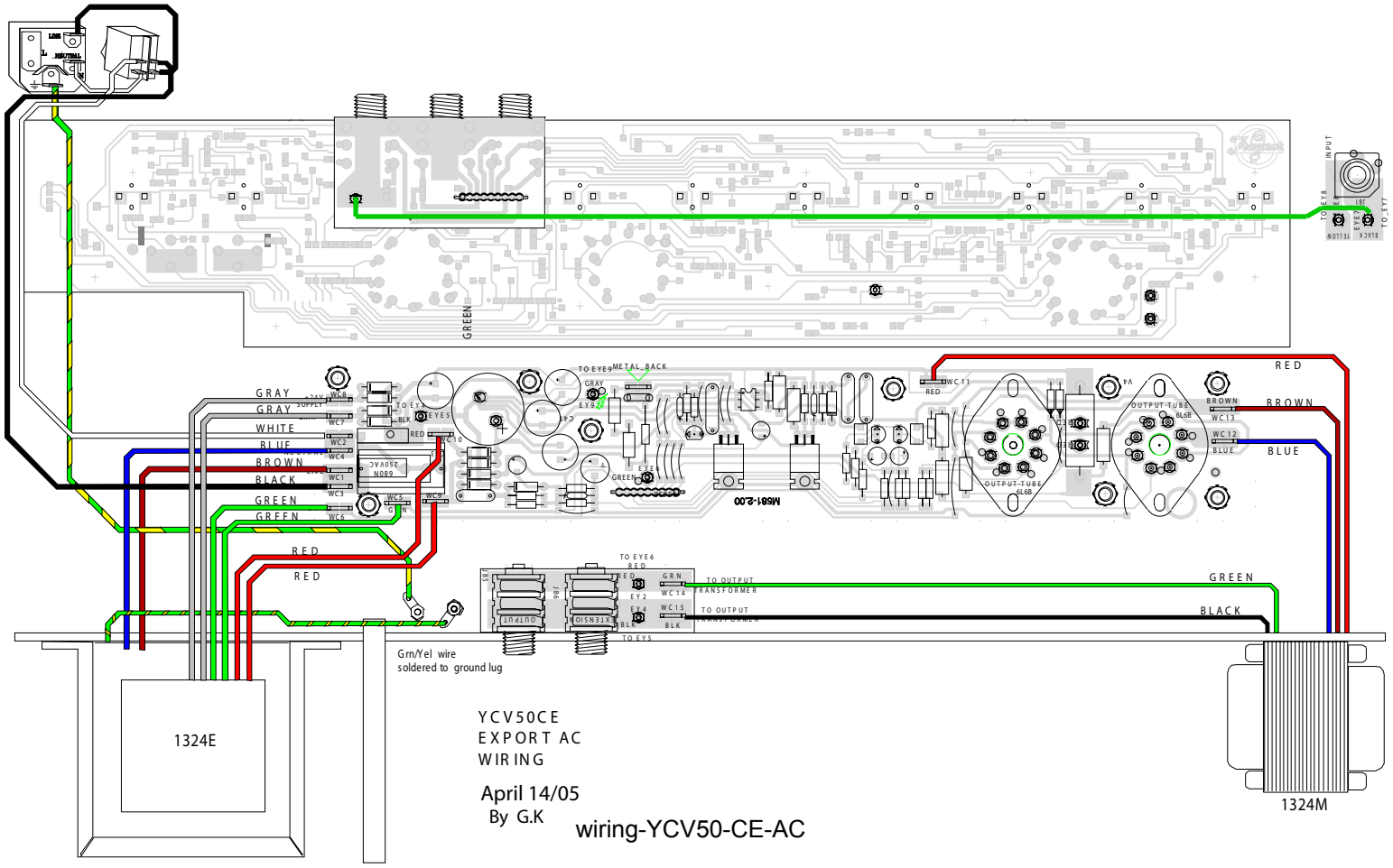
1. First complete the Service fix PC#6865 as described in the pdf:

Service_YCV50-m613_Update_for_V2.10_PC#6865.pdf

To upgrade the unit from v2.10 to v2.20 PC#6889, complete the following:

2. Replace jumper X61 with a 1K resistor, #4823:




GRAY
GRAY
WHITE
BLUE
BROWN
BLACK
GREEN
GREEN
RED
RED
GREEN
BLACK
RED
BROWN
BLUE
Grn/Yel wire
soldered to ground lug
1324E
1324M
YCV50CE
EXPORT AC
WIRING
April 14/05
By G.K
wiring-YCV50-CE-AC